

CLAIMS

1. A system for monitoring lithography lasers at at least one integrated circuit fabrication plant, said system, comprising:
 - A) a plurality of lasers each being configured for use as illumination sources in an integrated circuit lithography process,
 - B) a terminal server associated with each one of said plurality of lasers;
 - C) a central fabrication plant server unit in communication through a local area network with each of said plurality of lasers; said central fabrication plant unit being programmed to acquire data from each of said lasers and to store at least portions of the data in raw form and/or summary form;
 - D) a second server unit providing communication through a communication network between said first server unit and computers utilized by persons having access authorization to the information stored by said first server unit.
2. A system as in Claim 1 wherein said plurality of lasers are narrow band excimer lasers.
3. A system as in Claim 1 wherein each terminal server is provided with a unique internet address.
4. A system as in Claim 1 wherein said second server is located at facilities of a laser manufacturer.

5. A system as in Claim 1 wherein said central fabrication plant server unit is programmed with software created in modular form said software comprising:

- (a) a data acquisition module
- (b) a parser module
- (c) a database module and
- (d) a user interface module.

6. A system as in Claim 5 wherein said data acquisition module comprises software components comprising:

- (a) laser read and write
- (b) command write to lasers
- (c) command write queue
- (d) data read from lasers
- (e) master scheduler
- (f) interface to parser
- (g) database write queue
- (h) system error logs and error daemon

7. A system as in Claim 1 wherein data acquired from said lasers is presented at a web site created by said central fabrication plant server unit.

8. A system as in Claim 7 wherein said data acquired from said laser is presented in the form of summary charts.

9. A system as in Claim 7 wherein said web site comprises web pages.

10. A system as in Claim 9 wherein said web pages comprise:
 - (a) an administration page
 - (b) summary pages regarding particular lasers
 - (c) service log pages
 - (d) error pages
11. A system as in Claim 8 wherein said charts comprise:
 - (a) chamber lifetime charts
 - (b) LNM charts
 - (c) Stabilization module charts
 - (d) Uptime or downtime charts
 - (e) Maintenance related charts
12. A system as in Claim 1 wherein said communication network is the Internet
13. A system as in Claim 1 wherein said communication network is an intranet system.
14. A system as in Claim 1 wherein said terminal server is an embedded network card.